Overview and update to Surfrider's dune restoration projects on Miami Beach



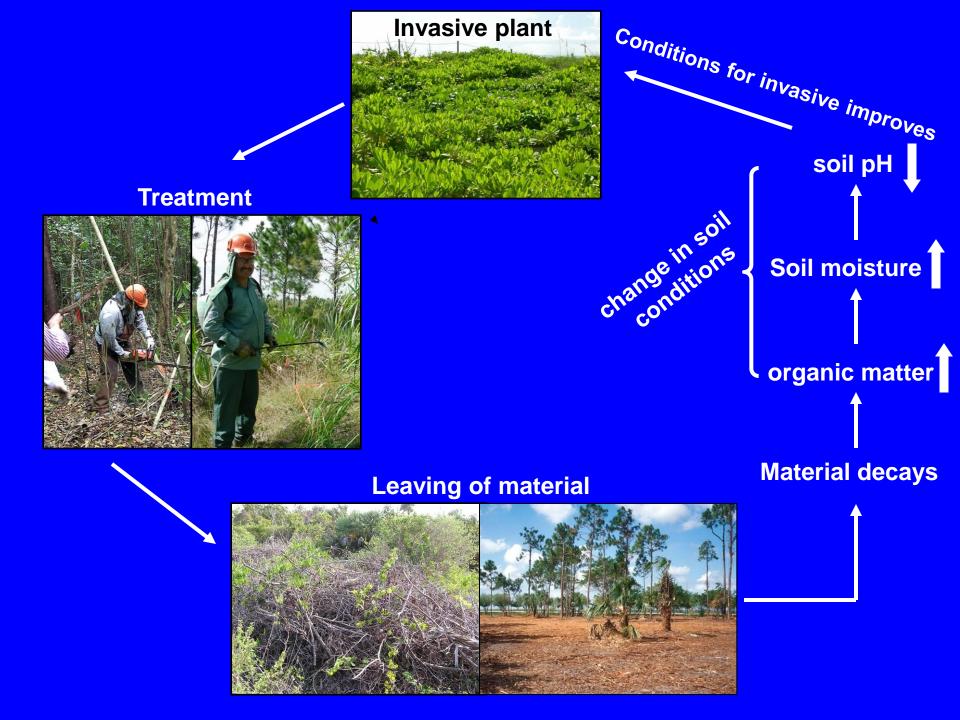


Samuel J. Wright Beach and Dune Workshop, Miami Beach June 19, 2013



North Shore Open Space Park



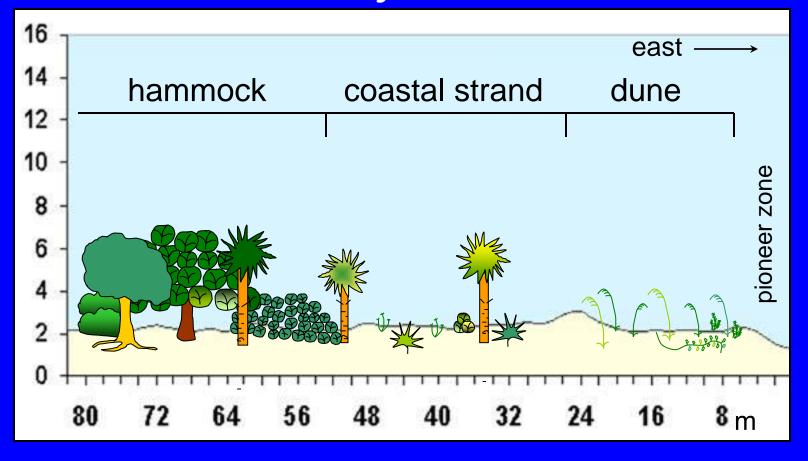


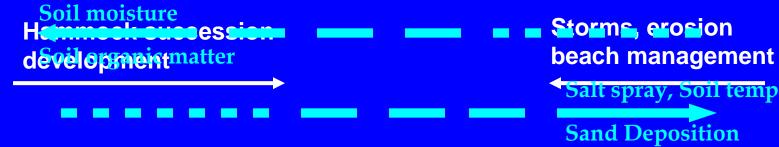






What are we trying to restore? What is a dune ecosystem?

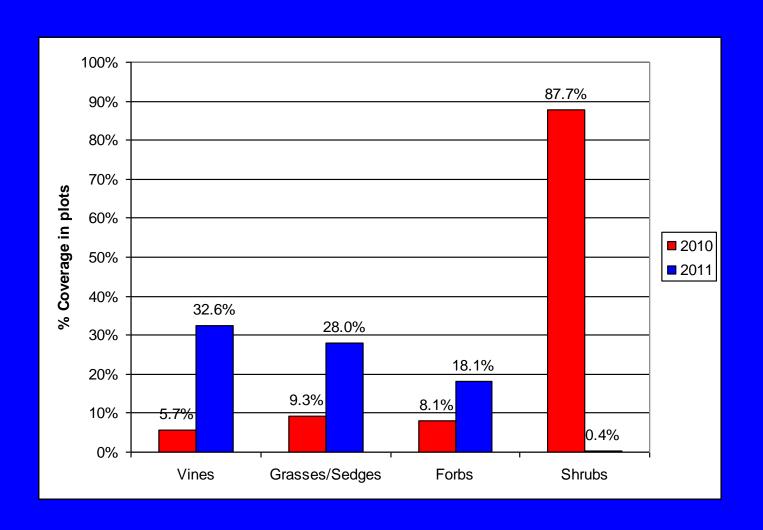








Response of vegetation to invasive removal



Scientific name	Common name	Qty	Status
Ambrosia hispida	coastal ragweed	2	
Cakile lanceata	sea rocket	9	
Argusia gnaphalodes	sea lavender	37	State endangered
Chrysobalanus icaco	cocoplum	9	
Coccothrinax argentata	silver palm	20	State endangered
Dodonea viscosa	varnishleaf	14	Locally imperiled
Ernodea littoralis	beach creeper	72	
Glandularia maritima	beach verbena	65	State endangered
Guapira discolor	blolly	3	
Ipomoea pes caprae ssp. brasiliensis	railroad vine	7	
Iva imbricata	beach elder	17	
Jacquemontia reclinata	beach clustervine	200	State/Federal endangered
Lantana depressa var. floridana	Florida lantana	44	State endangered
Passiflora suberosa	corkystem passionflower	24	
Pentalinon luteum	wild allamanda	19	
Pithecellobium keyense	blackbead	55	
Psychotria nervosa	wild coffee	4	
Randia aculeata	white indigoberry	64	
Scaevola plumieri	inkberry	61	State threatened
Serenoa repens	saw palmetto	83	
Sesuvium portulacastrum	sea purslane	29	
Sophora tomentosa var. truncata	necklace pod	35	Locally rare
Suriana maritima	bay cedar	63	Locally rare
Uniola paniculata	sea oats	1400	Federally protected
Zamia pumila	coontie	64	
Zanthoxylum coriaceum	Biscayne prickly ash	5	State endangered
		2405	

Agapostemon splendens Metallic Halictid Bee

- Found in pineland and dune habitats
- Underground nesters need open sandy areas to nest
- Known pollinator of federally endangered Jacquemontia reclinata



Passiflora suberosa Corkystemmed passionflower

- Planted during revegetation
- Larval host plant for gulf fritillary, julia and zebra longwing butterflies



Crotalaria rotundifolia Rabbit bells

Naturally recruited into restored dune



Larval host:
Ceranus blue butterfly and Bella moth





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